As per the Latest Syllabusof
Anna University, Chennai
(Regulation 2013)

Object Oriented Analysis and Design

For B.E.B.TECH V Semester CSE/IT Branches

P.Krishna Sankar
N.P.Shangaranarayanee

AR PUBLICATIONS
(A GROUP OF ARS PUBLICATIONS)
CHENNAI.

Object Oriented Analysis and Design
For B.E.B.TECH V Semester CSE/IT Branches
P.Krishna Sankar - N.P.Shangaranarayanee

Table of Contents

UNIT 1 UML DIAGRAMS .....

1.1 Introduction to OOAD.....

1.2 Unified Process.....

1.3 UML diagrams.....

1.4 Use Case .....

1.5 Class Diagrams.....

1.6 Interaction Diagrams .....

1.7 State Diagrams .....

1.8 Activity Diagrams.....

1.9 Package .....

1.10 Component and Deployment Diagrams……

Two Mark Question and Answers……..

UNIT 2 DESIGN PATTERNS .....

2.1 GRASP: Designing objects with responsibilities .....

2.2 Creator.....

2.3 Information Expert (or Expert) .....

2.4 Low Coupling .....

2.5 High Cohesion.....

2.6 Controller .....

2.7 Design Patterns.....

2.8 Creational Pattern .....

2.9 Factory method .....

2.10 Structural Pattern .....

2.11 Bridge.....

2.12 Adapter .....

2.13 Behavioral Patterns.....

2.14 Strategy.....

2.15 Observer .....

Two Mark Question and Answers……

UNIT 3 CASE STUDY.....

3.1 Case study : the Next Gen POS system.....

3.2 Inception .....

3.3 Use case Modeling .....

3.4 Relating Use cases .....

3.5 Include, extend and generalization.....
3.6 Elaboration.....
3.7 Domain Models.....
3.8 Finding conceptual classes and description classes.....
3.9 Associations.....
3.10 Attributes.....
3.11 Domain model refinement.....
3.12 Finding conceptual class Hierarchies.....
3.13 Aggregation and Composition. .....
Two Mark Question and Answers…….

UNIT 4 APPLYING DESIGN PATTERNS.....

4.1 System sequence diagrams.....
4.2 Relationship between sequence diagrams and use cases Logical architecture and UML package diagram.....
4.3 Logical architecture refinement.....
4.4 UML class diagrams.....
4.5 UML interaction diagrams.....
4.6 Applying GoF design patterns.....
Two Mark Question and Answers…….

UNIT 5 CODING AND TESTING.....

5.1 Mapping design to code.....
5.2 Testing: Issues in OO Testing.....
5.3 Class Testing.....
5.4 OO Integration Testing.....
5.5 GUI Testing.....
5.6 OO System Testing.....
Two Mark Question and Answers……..……..
Model Question Papers……..…